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2100 PENNSYLVANIA AVENUE, N.W.			LEBASSI, AMANUEL	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			2617	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/579,881	SCOTT ET AL.				
Office Action Summary	Examiner	Art Unit				
	AMANUEL LEBASSI	2617				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication.  (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>07 M</u>	arch 2007					
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application.						
,—	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-27</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	•					
10)⊠ The drawing(s) filed on <u>18 May 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
	priority under 35 H S C & 119(a)	-(d) or (f)				
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)□ None of:						
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
200 the attached detailed office action for a list of the certified copies not received.						
Attachmont/o						
Attachment(s)  1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Traftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application				
Paper No(s)/Mail Date 6) L. Other:						

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-5, 8-19, and 22-27 are rejected under 35 U.S.C. 102(e) as being unpatentable by Choi et al. US 7096020.

Regarding claim 1, Choi discloses a method of controlling communications service in a telecommunications system (col. 1, lines 19-22 - system and method for implementing handoffs between heterogeneous networks). Choi discloses first and second subsystems each including a radio access network comprising base stations and at least a radio network controller connected to at least some of said base stations and to a core network switch (Col. 1, lines 34-42 and Fig. 1, BTS and Node B, BSC and RNC, MSC and UMSC), the first subsystem being adapted to support first and second communications services (WCDMA (3G) and CDMA(2G) – Fig 1) and the second subsystem being adapted to support the second communications

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service(CDMA, (2G) - Fig. 1). Choi discloses the method comprising the following steps in the case of a first mobile terminal having a call in progress with a second terminal under the first communications service via at least a base station of the radio access network of the first subsystem (col. 1, lines 54-64, where the user equipment or mobile station enters the service area of CDMA from the WCDMA network): the radio network controller of the first subsystem detecting a call transfer condition for transferring the call to a base station of the radio access network of the second subsystem (col. 1, lines 61-67 where a handoff i.e. a call transfer condition for transferring the call to a base station). Choi discloses informing the core network switch to which the radio network controller of the first subsystem is connected of said detection of a call transfer condition (col. 2, lines 8-14 where the mobile station notify the WCDMA network of its ESN) and • if the second subsystem is not adapted to process the call under the first communications service, requesting a change of service in order for said call to continue under the second communications service (col. 2, lines 12-35 where a request for change of service is made because the CDMA network is unable to process the call under WCDMA and col. 4. lines 60 – col. 5, line 3 where if the WCDMA signal strength is weak, the controller transitions to the second state i.e. the controller requests service from the CDMA network).

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Regarding claim 2, Choi discloses wherein the radio network controller of the first subsystem is connected to a core network switch and the radio network controller of the second subsystem is connected to a second core network switch, wherein, after the first switch has been informed of said detection of a call transfer condition, a request to transfer the call from the first switch to the second switch is transmitted (col. 2, lines 14-19, where radio resource information to be transmitted between MAPs (Mobile Application Parts) in heterogeneous networks: the UMSC (first switch) transmits information to the MSC (second switch)), and wherein the inability of the second subsystem to process the call under the first communications service is indicated to the first switch by a transfer failure message sent in response to said transmission of the call transfer request (col. 2, lines 36-38 where handoff is impossible under current situations).

Regarding claim 3, Choi discloses wherein the first subsystem is of the third generation and the second subsystem is of the second generation (col. 1, lines 34-42 and Fig. 1, where the first subsystem is 3G and the second subsystem is 2G).

Regarding claim 4, Choi discloses wherein the first communications service necessitates a higher transmission bit rate than the second communications service (col. 4, lines 20-28).

Regarding claim 5, Choi discloses wherein each communications service is associated with coding over at least a segment of the call and the service change request includes a request to change the coding over said call segment (see above).

Regarding claim 8, Choi discloses wherein the second communications service is a voice telephone service (col. 1, lines 54-57 wherein the second communications service is a 2G CDMA voice telephone service).

Regarding claim 9, Choi discloses wherein Adaptive Multi rate(AMR) coding is associated with the second communications service (col. 4, lines 20-22- where the WCDMA processing unit includes AMR).

Regarding claim 10, Choi discloses wherein said transfer failure message is sent to the first core network switch and is forwarded to the radio network controller of the first subsystem and the step of informing the first switch of

detection by the radio network controller of the first subsystem of a call transfer condition for transferring the call to a base station of the radio access network of the second subsystem is repeated for as long as a transfer failure message is forwarded to the radio network controller of the first subsystem (see claim 1).

Regarding claim 11, the combination of above discloses wherein, if the second communications service necessitates a bit rate over a radio segment that is strictly lower than a maximum bit rate value authorized by the second subsystem, the surplus bit rate is used to transmit data via at least said base station of the radio access network of the second subsystem (see above).

Regarding claim 12, Choi discloses wherein the service change request is transmitted to the first mobile terminal and to the second **terminal (col. 2, lines 49-55)**.

Regarding claim 13, Choi discloses wherein the service change request is transmitted to the second terminal via at least a switch, a radio network controller and a base station to which the second terminal is connected (col. 2, lines 14-38).

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Regarding claim 14, Choi discloses wherein the service change request includes a request for modification of radio access bearer characteristics of the call respectively at the mobile first terminal end and at the second terminal end (col. 6, line 28-36 and Fig. 6).

Regarding claim 15, Choi discloses a core network switch of a telecommunications system (col. 1, lines 19-22 - system and method for implementing handoffs between heterogeneous networks). Choi discloses first and second subsystems each including a radio access network comprising base stations and at least a radio network controller connected to at least some of said base stations, at least some of the radio network controllers also being connected to said core network switch, the first subsystem being adapted to support first and second communications services and the second subsystem being adapted to support the second communications service (Col. 1, lines 34-42 and Fig. 1, BTS and Node B, BSC and RNC, MSC and UMSC), said core network switch comprising, in relation to a first mobile terminal having a call in progress with a second terminal under the first communications service via a base station of the radio access network of the first subsystem (col. 1, lines 54-64, where the user equipment or mobile station enters the service area of

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CDMA from the WCDMA network). Choi discloses • means for receiving an indication that the radio network controller of the first subsystem has detected a call transfer condition for transferring the call to a base station of the radio access network of the second subsystem (col. 1, lines 61-67 where a handoff i.e. a call transfer condition for transferring the call to a base station) and means for requesting a service change in order for said call to continue under the second communications service if the second subsystem is not adapted to process the call under the first communications service (col. 2, lines 12-35 where a request for change of service is made because the CDMA network is unable to process the call under WCDMA and col. 4. lines 60 – col. 5, line 3 where if the WCDMA signal strength is weak, the controller transitions to the second state i.e. the controller requests service from the CDMA network).

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Regarding claim 16, Choi discloses wherein the radio network controller of the first subsystem is connected to said core network switch and the radio network controller of the second subsystem is connected to a second core network switch, the switch further comprising means responding to reception of an indication that a call transfer condition has been detected by transmitting a call transfer request to the second switch (col. 2, lines 14-19, where radio

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resource information to be transmitted between MAPs (Mobile Application Parts) in heterogeneous networks: the UMSC (first switch) transmits information to the MSC (second switch)) and means for deducing that the second subsystem is not able to process the call under the first communications service from the reception of a transfer failure message in response to transmission (col. 2, lines 36-38 where handoff is impossible under current situations).

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Regarding claim 17, Choi discloses wherein the first subsystem is of the third generation and the second subsystem is of the second generation (col. 1, lines 34-42 and Fig. 1, where the first subsystem is 3G and the second subsystem is 2G).

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Regarding claim 18, Choi discloses wherein the first communications service necessitates a higher transmission bit rate than the second communications service (col. 4, lines 20-28).

Regarding claim 19, Choi discloses wherein each communications service is associated with coding over at least a segment of the call and the means for requesting a service change comprise means for requesting a coding change over said segment of the call. (see above)

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Regarding claim 22, Choi discloses the second communications service is a voice telephone service (col. 1, lines 54-57 wherein the second communications service is a 2G CDMA voice telephone service).

Regarding claim 23, Choi discloses wherein Adaptive Multi Rate (AMR) coding is associated with the second communications service (col. 4, lines 20-22- where the WCDMA processing unit includes AMR).

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Regarding claim 24, Choi discloses further comprising means for forwarding said transfer failure message to the radio network controller of the first subsystem (see claim 1).

Regarding claim 25, Choi discloses wherein the means for requesting a service change comprise means for transmitting a service change request to change from the first communications service to the second communications service to the mobile first terminal and to the second terminal (col. 2, lines 49-55).

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Regarding claim 26, Choi discloses wherein the means for transmitting a service change request to the second terminal are provided by at least a switch, a radio network controller and a base station to which the second terminal is connected (col. 2, lines 14-38).

Regarding claim 27, Choi discloses wherein the means for requesting a service change include means for requesting a modification of characteristics of at least a radio access bearer of the call (col. 6, line 28-36 and Fig. 6).

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 6, 7, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Choi et al. US 7096020 in view of Bruno et al. US 6262978.

Regarding claim 6, Choi fails to disclose wherein the coding associated with the first communications service is compatible with the H.324 standard. However, Bruno teaches wherein the coding associated with the first

communications service is compatible with the H.324 standard (col. 2, line 44-50).

At the time of invention, it would have been obvious to modify the invention of Choi with teaching of Bruno. The motivation would be in order to provide video capability over a phone line (col. 1, lines 37-41).

Regarding claim 7, Bruno discloses wherein the first communications service is a video telephone service (col. 3, line 34-43).

Regarding claim 20, Bruno discloses, wherein the coding associated with the first communications service is compatible with the H.324 standard (col. 2, line 44-50).

Regarding claim 21, Bruno discloses wherein the first communications service is a video telephone service (col. 3, line 34-43).

#### Conclusion

1. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Amanuel Lebassi, whose telephone number is (571)

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270-5303. The Examiner can normally be reached on Monday-Thursday from 8:00am to

5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Nick Corsaro can be reached at (571) 272-7876. The fax phone number for

the organization where this application or proceeding is assigned is (571) 273-

8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist/customer service whose telephone

number is (571) 272-2600.

Amanuel Lebassi

/A. L./

07172009

/NICK CORSARO/

Supervisory Patent Examiner, Art Unit 2617

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